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(54) Title: MODIFIED KSA AND USES THEREOF

A. Amino Acid Sequence Comparison of "Wild-Type KSA" (1) and Modified KSA (2)

1 MAPPQVLAFGLLLAAATATFAAAQEECVCEYKLVNCFVNNRQCQCTSVGAQNTVIC
2 MAPPQVLAFGLLLAAATATFAAAQEECVCEYKLVNCFVNNRQCQCTSVGAQNTVIC

1 SKLAAKCLVMKAEMNGSKLGRRAKPEGALQNNGLYDPCDESGLFKAKQCNGTSTCWC
2 SKLAAKCLVMKAEMNGSKLGRRAKPEGALQNNGLYDPCDESGLFKAKQCNGTSTCWC

1 VNTAGVRRTDKDTETTCSEYRTYWIIEELKHKAREKPYDSKSLRTALQKEITTRYQLD
2 VNTAGVRRTDKDTETTCSEYRTYWIIEELKHKAREKPYDSKSLRTALQKEITTRYQLD

1 PKFITSILYENNVITIDLQVNSSQKTQNDVDIADVAYYFEKDVKGESLFHSHKMDLTVN
2 PKFITSVLYENNVITIDLQVNSSQKTQNDVDIADVAYYFEKDVKGESLFHSHKMDLTVN

1 GEQLDLDPGQTLIYYVDEKAPEFSMQGLKAGVIAVIVVVVIAVVAGIVVLVISRKKRMA
2 GEQLDLDPGQTLIYYVDEKAPEFSMQGLKAGVIAVIVVVVIAVVAGIVVLVISRKKRMA

1 KYEKAETIKEMGEMHRELNA
2 KYEKAETIKEMGEMHRELNA

(57) Abstract: The present invention relates to a nucleic acid encoding a polypeptide and the use of the nucleic acid or polypeptide in preventing and/or treating cancer. In particular, the invention relates to improved vectors for the insertion and expression of foreign genes encoding tumor antigens for use in immunotherapeutic treatment of cancer.



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